



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

June 6, 2008

Mr. Gerardo Rios/ Ms. Nahid Zoueshtiagh (Air-3, EPA Region 9)
U.S. EPA, Region IX- Air-3
75 Hawthorne St.
San Francisco, CA 94105

Dear Mr. Rios/ Ms. Zoueshtiagh:

Long Beach Memorial Medical Center (ID 014213) has proposed to revise their Title V permit by adding two emergency internal combustion engines (A/nos. 482039 & 483304). The proposed revision is considered as a "Minor permit revision" to their facility permit. Attached for your review are the permit evaluation and the draft Title V permit for the proposed permit revision.

If you have any questions or wish to provide comments regarding this project, please call Hemang Desai at (909) 396-2596.

Very truly yours,

Michael D. Mills

Michael D. Mills
Senior Manager
General Commercial & Energy Team

Attachment

Cleaning the air that we breathe...

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

Facility Equipment and Requirements (Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
189297	D10829	ICE (50-500 BHP), EM ELECTRICAL GEN, DIESEL
222052	D61318	BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
222053	D61319	BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
222054	D61321	BOILER, NAT GAS & OIL, > 5=20 MM BTU/HR
287673	D78999	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287674	D79000	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287675	D79001	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287677	D79002	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
287678	D79003	ICE (>500 BHP), EM ELECTRICAL GEN, DIESEL
305182	D92304	ETHYLENE OXIDE STERILIZER
305183	D92305	ETHYLENE OXIDE STERILIZER
305184	D92306	ETHYLENE OXIDE STERILIZER
305185	D92307	ETHYLENE OXIDE STERILIZER
305186	D92308	AIR POLLUTION CONTROL SYSTEM-CATALYTIC OXIDIZER
305187	D92309	AIR POLLUTION CONTROL SYSTEM-CATALYTIC OXIDIZER
322832	F10118	STEAM CLEANER, DIESEL
349892	F19420	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
349893	F19419	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
349894	F19421	ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
482039		ICE (>500 BHP), EM ELECTRICAL, GEN, DIESEL
483304		ICE (50-500 BHP), EM ELECTRICAL, GEN, DIESEL

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS, AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
[RULE 401]
2. THE OPERATOR SHALL ONLY USE DIESEL FUEL WITH A SULFUR CONTENT THAT DOES NOT EXCEED 15 PPM BY WEIGHT, UNLESS THE OPERATOR DEMONSTRATES IN WRITING TO THE EXECUTIVE OFFICER THAT SPECIFIC ADDITIONAL TIME IS NECESSARY.
[RULE 431.2]
3. THIS FACILITY SHALL SUBMIT A RULE 1472 COMPLIANCE PLAN ON OR BEFORE JANUARY 1, 2011.
[RULE 1472]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D10829
A/N 189297**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3412TA, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 895 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]
6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

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7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]
8. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES
RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1110.2]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D61318
A/N 222052**

Equipment Description:

BOILER, NO. 1, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-14 LOW NOx BURNER, 19,860,000 BTU PER HOUR WITH A 7-1/2 H.P. COMBUSTION AIR BLOWER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.
[RULE 1146]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING AN EMERGENCY AND REQUIRED TESTING AT WHICH FUEL OIL MAY BE USED.
[RULE 1146]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.
[RULE 1146]
7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

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8. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O₂, AVERAGED OVER 15 CONSECUTIVE MINUTES:
- A. 400 PPM OF CARBON MONOXIDE.
 - B. 30 PPM OF OXIDES OF NITROGEN WHEN FIRING NATURAL GAS.
 - C. 40 PPM OF OXIDES OF NITROGEN WHEN FIRING FUEL OIL.
- [RULE 1146]

Periodic Monitoring:

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
- [RULE 3004 (a) (4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
- [RULE 3004 (a) (4)]
11. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.)

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IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a) (4)]

Emissions And Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS
NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL
CO: 400 PPMV, RULE 1146
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D61319
A/N 222053**

Equipment Description:

BOILER, NO. 2, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-14 LOW NO_x BURNER, 19,860,000 BTU PER HOUR WITH A 7-1/2 H.P. COMBUSTION AIR BLOWER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.
[RULE 1146]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING AN EMERGENCY AND REQUIRED TESTING AT WHICH FUEL OIL MAY BE USED.
[RULE 1146]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.
[RULE 1146]
7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

8. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O₂, AVERAGED OVER 15 CONSECUTIVE MINUTES:
- A. 400 PPM OF CARBON MONOXIDE.
 - B. 30 PPM OF OXIDES OF NITROGEN WHEN FIRING NATURAL GAS.
 - C. 40 PPM OF OXIDES OF NITROGEN WHEN FIRING FUEL OIL.
- [RULE 1146]

Periodic Monitoring:

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
- [RULE 3004 (a) (4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
- [RULE 3004 (a) (4)]
11. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS, AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

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IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a) (4)]

Emissions And Requirements:

12. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS
NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL.
CO: 400 PPMV, RULE 1146
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D61321
A/N 222054**

Equipment Description:

BOILER NO. 3, BABCOCK AND WILCOX, WATER TUBE TYPE, NATURAL GAS OR FUEL OIL FIRED, COEN, MODEL SDAF-18 LOW NOx BURNER, 25,700,000 BTU PER HOUR WITH A 7-1/2 H.P. COMBUSTION AIR BLOWER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FLUE GAS RECIRCULATION SYSTEM SHALL BE IN FULL USE WHENEVER THE BOILER IS IN OPERATION.
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF RULE 1146.
[RULE 1146]
5. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING AN EMERGENCY AND REQUIRED TESTING AT WHICH FUEL OIL MAY BE USED.
[RULE 1146]
6. THE BURNER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE THE COMBUSTION AIR, FUEL, AND RECIRCULATED FLUE GAS AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST TWICE A YEAR, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO ASSURE ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME BURNER FIRING RATE.
[RULE 1146]
7. THE OWNER OR OPERATOR OF THIS BOILER SHALL MAINTAIN ALL BOILER TUNE-UP RECORDS, AS SPECIFIED IN CONDITION NO. 6 ABOVE FOR A PERIOD OF AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1146]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

8. THE EMISSIONS FROM THIS BOILER SHALL NOT EXCEED BY VOLUME ON A DRY BASIS AT 3% O₂, AVERAGED OVER 15 CONSECUTIVE MINUTES:
- A. 400 PPM OF CARBON MONOXIDE.
 - B. 30 PPM OF OXIDES OF NITROGEN WHEN FIRING NATURAL GAS.
 - C. 40 PPM OF OXIDES OF NITROGEN WHEN FIRING FUEL OIL.
- [RULE 1146]

Periodic Monitoring:

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
- [RULE 3004 (a) (4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
- [RULE 3004 (a) (4)]
11. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

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IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a) (4)]

Emissions And Requirements:

12. IF THIS BOILER BURNS MORE THAN 200,000,000,000 (200 BILLION) BTUS OF FUEL IN ANY ONE CALENDAR YEAR, THE BOILER OPERATOR SHALL INSTALL AND OPERATE BY MARCH 1 OF THE FOLLOWING YEAR, AN OXIDES OF NITROGEN CONTINUOUS EMISSION MONITORING SYSTEM THAT IS APPROVED BY THE EXECUTIVE OFFICER IN ACCORDANCE WITH RULE 218(b) AND SHALL CONTINUE TO OPERATE IT FOR THE LIFE OF THE BOILER.
[RULE 1146, 218(b)]

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULE 1146, WHEN FIRING NATURAL GAS
NOx: 40 PPMV, RULE 1146, WHEN FIRING FUEL OIL.
CO: 400 PPMV, RULE 1146
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D78999
A/N 287673**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. D930505842, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D79000
A/N 287674**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504735, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D79001
A/N 287675**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504736, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D79002
A/N 287677**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504733, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES
AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D79003
A/N 287678**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G3, SERIAL NO. D930504734, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 535 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D92304
A/N 305182**

Equipment Description:

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8" L. X 1'-5" H. INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.
[RULE 1401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT AND/OR OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAKED CHECKED PER AQMD RULE 1405 (d)(5).
[RULE 1405]
6. ALL RECORDS, SUCH AS OPERATING SCHEDULES AND NUMBER OF BATCHES PROCESSED, SHALL BE MAINTAINED, KEPT ON FILE FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

7. ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D92305
A/N 305183**

Equipment Description:

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8" L. X 1'-5" H.
INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.
[RULE 1401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT AND/OR OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAKED CHECKED PER AQMD RULE 1405 (d) (5).
[RULE 1405]
6. ALL RECORDS, SUCH AS OPERATING SCHEDULES AND NUMBER OF BATCHES PROCESSED, SHALL BE MAINTAINED, KEPT ON FILE FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

7. ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D92306
A/N 305184**

Equipment Description:

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8" L. X 1'-5" H. INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.
[RULE 1401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT AND/OR OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAKED CHECKED PER AQMD RULE 1405 (d) (5).
[RULE 1405]
6. ALL RECORDS, SUCH AS OPERATING SCHEDULES AND NUMBER OF BATCHES PROCESSED, SHALL BE MAINTAINED, KEPT ON FILE FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

7. ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D92307
A/N 305185**

Equipment Description:

STERILIZER/AERATOR, ETHYLENE OXIDE, AMSCO, MODEL NO. 3017, 1'-3" W. X 2'-8' L. X 1'-5" H.
INTERNAL DIMENSION, WITH A COMPRESSED-AIR VENTURI EVACUATION SYSTEM.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 1 LOAD IN ANY ONE DAY.
[RULE 1401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL DEVICE WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT AND/OR OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. THIS EQUIPMENT SHALL BE LEAKED CHECKED PER AQMD RULE 1405 (d) (5).
[RULE 1405]
6. ALL RECORDS, SUCH AS OPERATING SCHEDULES AND NUMBER OF BATCHES PROCESSED, SHALL BE MAINTAINED, KEPT ON FILE FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

7. ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D92308
A/N 305186**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER (ETO ABATOR), DONALDSON, 2'-0" W. X 3'-2" L. X 2'-4" H. INTERNAL DIMENSIONS, WITH A PREFILTER, AN ELECTRIC HEATER, AND A HOPCALITE CATALYST BED.
2. EXHAUST SYSTEM WITH A BLOWER, 50 SCFM, VENTING TWO ETHYLENE OXIDE STERILIZERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT ANNUAL SOURCE TESTS PER AQMD RULE 1405(d) (6).
[RULE 1405]
4. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH THE ABOVE IN A FORMAT APPROVED BY THE AQMD. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

5. ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. D92309
A/N 305187**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER (ETO ABATOR), DONALDSON, 2'-0" W. X 3'-2" L. X 2'-4" H. INTERNAL DIMENSIONS, WITH A PREFILTER, AN ELECTRIC HEATER, AND A HOPCALITE CATALYST BED.
2. EXHAUST SYSTEM WITH A BLOWER, 50 SCFM, VENTING TWO ETHYLENE OXIDE STERILIZERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OWNER OR OPERATOR OF THE EQUIPMENT SHALL CONDUCT ANNUAL SOURCE TESTS PER AQMD RULE 1405(d) (6).
[RULE 1405]
4. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH THE ABOVE IN A FORMAT APPROVED BY THE AQMD. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

5. ETHYLENE OXIDE: RULE 1405(d), SEE RULE FOR REQUIREMENTS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. F10118
A/N 322832**

Equipment Description:

STEAM CLEANING UNIT CONSISTING OF:

1. BOILER, HOTSY EQUIPMENT COMPANY, PORTABLE, STEAM CLEANING, MODEL NO. 1240, 420,000 BTU/HR, FUEL OIL.
2. INTERNAL COMBUSTION ENGINE, VANGUARD, 9 HP, DRIVING A 4 GPM PUMP, GASOLINE.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3) THIS EQUIPMENT SHALL NOT BE OPERATED MORE THAN 4 HOURS IN ANY ONE CALENDAR DAY.
[RULE 1303(a) (1)-BACT]
4. AN EQUIPMENT OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME (IN HOURS), AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a) (1)-BACT]

Emissions And Requirements:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. F19420
A/N 349892**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. 1980801991, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. F19419
A/N 349893**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. 1980801990, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No. F19421
A/N 349894**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, EMERGENCY ELECTRICAL GENERATION, MODEL NO. KTA19-G3, SERIAL NO. 1980801992, DIESEL-FUELED, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 685 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No.
A/N 482039**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3412 C DITA, SERIAL NO. 81Z09207, DIESEL-FUELED, 12 CYLINDERS, TURBOCHARGED, AFTERCOOLED, 890 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 30 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 30 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

PERMIT TO OPERATE

**Permit No.
A/N 483304**

Equipment Description:

INTERNAL COMBUSTION ENGINE, IZUSU, EMERGENCY ELECTRICAL GENERATION, MODEL NO. BB-4JG1T, DIESEL-FUELED, 4 CYLINDERS, TURBOCHARGED, 65 BHP.

Conditions:

- 1) OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2) THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1110.2, RULE 1304 (a), RULE 1470]
4. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, RULE 1304 (a)]
5. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION FOR A MINIMUM OF TWO CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION (INCLUDE HOURS FOR MANUAL AND AUTOMATIC OPERATION) SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1110.2, RULE 1304 (a)]

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

6. OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.
[RULE 1304 (a)]
7. THE ENGINE SHALL MEET ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULE 1470, RULE 431.2]

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE LONG BEACH MEMORIAL MEDICAL CENTER

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**ENGINEERING AND COMPLIANCE DIVISION****APPLICATION PROCESSING AND CALCULATIONS****PAGES****1****APPLICATION NO.****482038****ENGINEER****HD****PAGE****1****DATE****6/6/2008****CHECK BY****TITLE V FACILITY
PERMIT REVISION****COMPANY NAME:** Long Beach Memorial Medical Center**MAILING ADDRESS** 2801 Atlantic Ave.
Long Beach, CA 90806**EQUIPMENT ADDRESS** SAME AS ABOVE**HISTORY**

LB Memorial Center filed this application on 04/24/08. The company requested to revise its Title V Facility permit to incorporate 2 emergency internal combustion engines to the facility. The revision qualifies as Minor Facility Revision as per Rule 3000 (b) (12).

EMISSION CALCULATIONS:

This application is only for administrative purposes and therefore, no calculations are necessary.

RULES COMPLIANCE

- Rule 212: There is no school within 1,000 ft of the equipment. There will not be any toxics emissions from this operation. Emissions thresholds in section g of the rule are not exceeded. A public notice is not required.
- Rule 401: No visible emissions in violation of this rule are expected.
- Rule 402: No Nuisance complaints are expected.
- Reg. XIII: The application is for administrative purposes and is not a source of emissions. Therefore, this rule does not apply.
- Reg. XXX: The revision qualifies as Minor Facility Revision as per Rule 3000 (b)(12).

RECOMMENDATION

It is recommended that company's TITLE V permit be revised to incorporate 2 emergency generators into the facility permit following a 45-day EPA review.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING & COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGE 1 of 2 A/N 482039 PROCESSED BY HD CHECKED BY DATE 6/4/2008
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Applicant's Name: LONG BEACH MEMORIAL MEDICAL CENTER
Mailing Address: 2801 ATLANTIC AVE.
 LONG BEACH, CA 90806

Equipment Location: SAME AS ABOVE

Equipment Description:
 INTERNAL COMBUSTION ENGINE
 MANUFACTURER: CATERPILLAR
 MODEL NO.: 3412C DITA
 FUELED WITH: DIESEL
 DRIVING: EMERGENCY GENERATOR
 SERIAL NO.: 81Z09207
 CYLINDERS: 12
 ASPIRATION: TURBOCHARGED AND AFTERCOOLED
 HP RATING: 890

HISTORY/PROCESS DESCRIPTION:

Application date: 4/25/2008
 Class: 3

CALCULATIONS:

See ATTACHMENT A.

EVALUATION:

Rule 212:

This is not a significant project as defined by this rule. No public notice is required.

Rule 401:

Based on experience with similar equipment, this engine is expected to comply with the visible emission limits.

Rule 402:

Based on experience with similar equipment, nuisance complaints are not expected.

Rule 404:

Based on experience with similar equipment, compliance with this rule is expected.

Rule 431.2:

Diesel fuel supplied to this equipment must contain 0.0015% or less sulfur by weight. Compliance is expected.

Rule 1110.2:

Rule 1110.2 is not applicable.

REGULATION XIII: New Source Review (Amended Jun. 16, 1996)

The equipment must be constructed with BACT. It is exempt from the offset and modeling requirements

RULE 1401: Exempt as per section (g)(1)(F)

Rule 1470: Compliance is expected.

RULE 1472: The compliance date for the hospitals is not until 2011.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGE 2 of 2
ENGINEERING & COMPLIANCE	A/N 482039
APPLICATION PROCESSING AND CALCULATIONS	PROCESSED BY HD
	CHECKED BY
	DATE 6/4/2008

BACT:

Equipment requirements:

	R	T	A	
Required	x	x	x	
Actual		x	x	
Compliance	No	Yes	Yes	YES

OR

NOx Emission Limits:

	g/HP-hr:
Required*	10
Actual	7.5
Compliance	Yes

R = Retard Timing
T = Turbocharged
A = Aftercooled

PM10 Emission Limits:

	g/HP-hr:
Required*	0.38
Actual	0.37
Compliance	Yes

Compliance:

YES

* As per BACT memo dated 10/19/00 (Installed prior to 7/1/96)

DISCUSSIONS:

Based on the information submitted with the application, the engine will operate:

[] in violation of BACT.

[x] in compliance with all the applicable Rules and Regulations of the District.

RECOMMENDATIONS:

[] Deny permit to operate.

[x] Issue Permit to Operate subject to the following operating conditions:

CONDITIONS

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.

For conditions 3-9, please refer to sample permit.

ATTACHMENT A

A/N

482039

Emergency ICEs

Given:

HP 890
 g to lb conversion factor 0.0022046
 Operating schedule
 hrs/day Max. 1
 hrs/day Avg. 1
 days/wk 1
 hrs/month Max. 5
 wks/yr 50

	VOC	NOx	SOx	CO	PM	PM10
Emission factors	0.066	7.5	0.0049	0.29	0.39	0.37

	Yes	No
Retard Timing		x

	VOC	NOx	SOx	CO	PM	PM10
Emission correction factor	1	1	1	1	1	1

Computations:

	VOC	NOx	SOx	CO	PM	PM10
Emission factor, g/HP-hr	0.066	7.50	0.0049	0.29	0.39	0.37
lb/hr	0.13	14.72	0.01	0.57	0.77	0.73
lb/day Max.	0	15	0	1	1	1
lb/day Avg.	0	2	0	0	0	0
lb/yr	6.60	750.50	0.49	29.02	39.03	37.47

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGE	1	of	2
	A/N	483304		
ENGINEERING AND COMPLIANCE	PROCESSED BY	HD		
	CHECKED BY			
APPLICATION PROCESSING AND CALCULATIONS	DATE	5/22/2008		

Applicant's Name: LONG BEACH MEMORIAL MEDICAL CENTER
Mailing Address: 2801 ATLANTIC AVE.
LONG BEACH, CA 90806

Equipment Location: SAME AS ABOVE

Equipment Description:
INTERNAL COMBUSTION ENGINE
MANUFACTURER: ISUZU
MODEL NO.: BB-4JG1T
FUELED WITH: DIESEL
DRIVING: EMERGENCY GENERATOR
SERIAL NO.:
CYLINDERS: 4
ASPIRATION: TURBOCHARGED
HP RATING: 65

HISTORY/PROCESS DESCRIPTION:

Application date: 5/29/2008
Class: 1

CALCULATIONS:

See ATTACHMENT A.

EVALUATION:

Rule 212:

This is not a significant project. Public notice is NOT required.

Rule 401:

Based on experience with similar equipment, this engine is expected to comply with the visible emission limits.

Rule 402:

Based on experience with similar equipment, nuisance complaints are not expected.

Rule 404:

Based on experience with similar equipment, compliance with this rule is expected.

Rule 431.2:

Diesel fuel supplied to this equipment must contain ^{0.05}0.05% or less sulfur by weight. Compliance is expected.

Rule 1110.2:

Rule 1110.2 is not applicable.

REGULATION XIII: New Source Review (Amended Jun. 16, 1996)

The equipment must be constructed with BACT. It is exempt from the offset and modeling requirements

RULE 1401: Exempt as per section (g)(1)(F)

Rule 1470: Compliance is expected.

RULE 1472: The compliance date for the hospitals is not until 2011.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	PAGE 2 of 2
ENGINEERING AND COMPLIANCE	A/N 483304
APPLICATION PROCESSING AND CALCULATIONS	PROCESSED BY HD
	CHECKED BY
	DATE 5/22/2008

BACT REQUIREMENTS (TIER 2 ENGINES)

	NOx + ROG	CO	PM ₁₀
Required	5.6	3.7	0.3
Actual	5.29	0.89	0.15
Compliance	Yes	Yes	Yes

Overall Compliance:

YES

DISCUSSIONS:

Based on the information submitted with the application, the engine will operate:

☐ in violation of BACT.

☒ in compliance with all the applicable Rules and Regulations of the District.

CONDITIONS

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED.
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.

FOR CONDITIONS 3 THRU' 8, PLEASE REFER TO SAMPLE PERMIT.

ATTACHMENT A

A/N

483304

Emergency ICEs

Given:

HP 65
 g to lb conversion factor 0.0022046
 Operating schedule
 hrs/day Max. 1
 hrs/day Avg. 1
 days/wk 1
 hrs/month Max. 5
 wks/yr 50

	VOC	NOx	SOx	CO	PM	PM10
Emission factors	1 ✓	4.29 ✓	0.0049 ✓	0.89 ✓	0.15 ✓	0.14 ✓

	Yes	No
Retard Timing	0	x

	VOC	NOx	SOx	CO	PM	PM10
Emission correction factor	1	1	1	1	1	1

Computations:

	VOC	NOx	SOx	CO	PM	PM10
Emission factor, g/HP-hr	1	4.29	0.0049	0.89	0.15	0.14
lb/hr	0.14	0.61	0.00	0.13	0.02	0.02
lb/day Max.	0	1	0	0	0	0
lb/day Avg.	0	0	0	0	0	0
lb/yr	7.16	30.74	0.04	6.38	1.07	1.03

Data Inputs

Applicant: **LONG BEACH MEMORIAL MEDICAL CENTER**
 Mailing address: **2801 ATLANTIC AVE.
 LONG BEACH, CA 90806**

ENGR. INI.	HD
A/N	483304
Appln Date:	5/29/2008
Class:	1

Equipment Address: **SAME AS ABOVE**

MANUFACTURER: **ISUZU**
 MODEL NO.: **BB-4JG1T**
 SERIAL NO.:
 CYLINDERS: **4**
 HP RATING: **65**

Turbocharged	Turbocharged/ Aftercooled	Naturally Aspirated
X		

TURBOCHARGED

Driving:

Generator	Compressor	Pump
X	0	0

GENERATOR

	VOC	NO _x	CO	PM
Emission Factors, g/HP-hr	1	4.29	0.89	0.15

	Yes	No
Retard Timing	0	x

Operating schedule

hrs/day Max.	1
hrs/day Avg.	1
days/wk	1
hrs/month Max.	5
wks/yr	50